litternauonal application No.

PCT/SE 2005/000528

			PC1/3E 2005	7000528	
A. CLAS	SIF!CATION OF SUBJECT MATTER				
IPC7:	GOIN 33/72, CO7D 233/86 to International Patent Classification (IPC) or to both	national classification and	d IPC		
B. FIELI	DS SEARCHED				
Minimum d	ocumentation searched (classification system followed	by classification symbols	;)	•	
	G01N, C07D				
Documenta	tion searched other than minimum documentation to the	ne extent that such docu	ments are included	in the fields searched	
SE,DK,	FI,NO classes as above				
Electronic d	ata base consulted during the international search (nam	ne of data base and, whe	re practicable, se ar	ch terms used)	
EPO-IN	TERNAL, WPI DATA, PAJ, MEDLINE, B	IOSIS, EMBASE.	CA		
	IMENTS CONSIDERED TO BE RELEVANT	,			
Category*	Citation of document, with indication, where ap	opropriate of the releva	tant naccanes	Relevant to claim No.	
			<del></del>	Refevant to claim 140.	
Α	Per Rydberg et al,"Applicabilit Edman Procedure for Measure			1-46,48-52	
	Mechanisms of Formation and	Degradation of	-	•	
	Phenylthiohydantoins"; Chem Vol. 15, pages 570-581	. Res. Toxicol,	, 2002,		
	voi. 15, pages 570-581				
Α	Steven G. Carmella et al, "Ethy	lation and		1-46,48-52	
	methylation of hemoglobin i	n smokers and		1 40,40 32	
	non-smokers"; Carcinogenesi	s, 2002, Vol. 2	23,		
	No. 11. pages 1903-1910				
X Furthe	er documents are listed in the continuation of Box	C. See pa	tent family annex		
	categones of cited documents: of defining the general state of the art which is not considered	"I" later document p	oublished after the inte	rnational filing date or priority	
to be of	particular relevance	the principle or t	heory underlying the i		
filing date  "I" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "Y" document of particular relevance: the claimed invention cannot be					
	nt referring to an oral disclosure, use, exhibition or other	considered to inv	olve an inventive step ne or more other such	when the document is documents, such combination	
"P" docume:	nt published prior to the international filing date but later than nly date claimed	being obvious to a person skilled in the art "&" document member of the same patent family			
	actual completion of the international search	Date of mailing of the international search report			
10 Augus	t 2005		1 1 -08- 20	05 '	
Name and mailing address of the ISA/		Authorized officer			
	Patent Office	DATE			
	S-102 +2 STOCKHOLM lo. +46 8 666 C2 86	PATRICK ANDERSSON/Els Telephone No. + 46 8 782 25 00			

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Concinuation). DOCUMENTS CONSIDERED TO BE RELEVANT  Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No no. 1971:420961, document no. 75:20961, Kawauchi, Hiroshi, Tuzimura, Katura, "Reaction of fluorescein-isothiocyanate with proteins and amino acids III. Syntheses of trifluoroacetic acid salts of fluorescein-thiohydantoin amino acids and their spectrometric studies"; Agricultural and Biological Chemistry (1971), 35(2), 150-7
A STN International, File CAPLUS, CAPLUS accession no. 1971:420961, document no. 75:20961, Kawauchi, Hiroshi; Tuzimura, Katura, "Reaction of fluorescein-isothiocyanate with proteins and amino acids III. Syntheses of trifluoroacetic acid salts of fluorescein-thiohydantoin amino acids and their spectrometric studies"; Agricultural and Biological
no. 1971:420961, document no. 75:20961, Kawauchi, Hiroshi; Tuzimura, Katura, "Reaction of fluorescein-isothiocyanate with proteins and amino acids III. Syntheses of trifluoroacetic acid salts of fluorescein-thiohydantoin amino acids and their spectrometric studies"; Agricultural and Biological

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)							
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2. Claims Nos.: 47 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:							
Claim 47 relates to a container provided with means for performing step a)-c) in claim 1, it its unclear from the/							
3. Claims Nos.:							
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).							
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)							
This International Searching Authority found multiple inventions in this international application, as follows:							
The following separate inventions were identified:							
I: Claims 1-44, 47-49 and 51-52 as well as parts of claims 45-46 and 50 directed to a method etc. for analyzing N-terminal protein adducts using fluorescent isothiocyanates with the							
/							
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.							
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.							
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:							
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:							
Remark on Protest  The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.  The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.  No protest accompanied the payment of additional search fees.							

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					·
Box II.2					
claims and the provided with. demand for clar	description w Consequently,	hat unique claim 47	e means sa lacks to	id contain comply wit	er is h the
demand for clar	ity of PCT ar	ticle 5			
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Box III

exception of reagents having a directly bound phenyl or pentafluorophenyl group, and the compound DABTH in claim 45.

II-VIII: Claims 45-46 and 50 directed to the different compounds of claim 45.

The present application has been considered to contain nine inventions which are not linked such that they form a single general inventive concept, as required by Rule 13 PCT for the following reasons:

The single general concept of the compounds of claim application is that present they are fluorescent reagents reacted with different amino acids. They are not particularily adapted for the method of claims 1-33. Document Kawauchi H et al, "Reaction of fluorescein-isocyanate proteins and aminoacids. III. Syntheses οf trifluoroacetic acid salts of fluorescein-thiohydantoin amino spectrometric studies", Agriculture acids and their Biological Chemistry 1971, volym 35(2), pages 150-7, (abstract), CAPLUS[online] retrieved 2005-02-02 International, Columbus, Ohio, USA. Accession No. 1975:4209619 different  ${\tt amino}$ acid-derivates of isothiocyanate for use in spectrophotometric methods.

Hence, the single general concept is known/obvious and cannot be considered as a single general inventive concept in the sense of Rule 13.1 PCT.

No other features can be distinguished which can be considered as same or corresponding special technical features in the sense of Rule 13.2 PCT.

Thus, the application lacks unity of invention.